Web Design Development

This program is designed to provide students with the skills to complete a Web site project from start to finish, through design, development, testing, demo, publication, and maintenance.

This course, aimed at internet users of all skill levels, presents an overview of the latest web technologies and their many uses for web development. The students learn the impact of incorporating enterprise-wide data onto the web and how Object-Oriented design influences the Web's future capabilities. Technologies reviewed include HTML and Dynamic HTML, Common Gateway Interface capabilities, JavaScript, ActiveX Controls, VBScript and Java Servlets.

Objectives:

At the end of the course, students will be able to:

Understand how the Internet functions

Understand how the Internet, Intranet, and Extranet relate to one another

Use basic scripting languages and how they add dynamic content to web pages

Understand the Client Server architecture and its impact on web computing

Write HTML pages, CGI script, Java Applet, Java Servlet. ActiveX control, JavaScript functions, and VBScript functions

Who Should Take This Course:

This course is designed for all persons who need a background in the use of technology on the Internet. Students should have some experience using browsers and be familiar with Internet concepts.

Unit 1: Internet, Intranet and the World Wide Web

- What is the Internet
- How does the Internet work?
- Different Types of Networks
- The World Wide Web
- Web Architecture
- What is an Intranet?
- Intranet Applications
- Web Browsers
- Internet Explorer Features
- Netscape Communicator Features

Unit 2: Hosting an Internet Server

- Setting up the Server
- Directory Structure of the Java Web Server
- Web Server Security and Access Control

Unit 3: HTML/DHTML documents and Web Page Design/Publishing

- Web Client/Server Interaction

- The URL defined
- HTML
- Basic HTML Tags
- Advanced HTML Tags
- Features of HTML
- Dynamic HTML
- HTML Editors and Converters
- Plug-ins and Embedded Objects

Unit 4: Microsoft FrontPage
- Objectives
- Front Page Environment
- Front Page Editor
- Tables
- Frames
- Forms
- Maintaining and Promoting Your Site

Unit 5: JavaScript
- What is JavaScript?
- JavaScript features
- JavaScript and Java
- JavaScript Basic Command Syntax
- Incorporating JavaScript into HTML
- Example: Form Manipulation
- Example: Doing Form Field Validation

Unit 6: VBScript and ActiveX
- VBScript
- VBScript Basic Command Syntax
- Incorporating VBScript into HTML
- What are ActiveX Controls?
- What is an ActiveX Document?
- Incorporating ActiveX Controls into HTML
- The ActiveX Control Pad
- Using the ActiveX Control Pad